CHEMISTRY UNIT - 2013

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|  | **Topic** | **Pages** | **Suggestions** |
| 1 | Safety Symbols – WHMIS and HHPS  MSDS Sheets, Lab Equipment | 513 |  |
| 2 | Introduction to Chemistry and the Periodic Table  - element names, symbols, atomic number, atomic mass  - memorize first 20 for quiz | 178-185 |  |
| 3 | Periodic Table Trends - Mendeleev Periodic Law  - properties of halogens, noble gases, metalloids, alkali metals, alkaline earth metals, hydrogen | 193-195 | Suitcase of elements |
| 4 | Physical Properties  - Element Project | 148-151 | Physical Properties Samples |
| 5 | Chemical Properties  **Element Name Quiz – the first 20 names and symbols** | 152 |  |
| 6 | Physical and Chemical Changes  Pre-lab based on MSDS sheets | 153-155 | Demos |
| 7 | **Lab: Identifying Physical And Chemical Changes** |  |  |
| 8 | Particle Theory of Matter Classification of Matter | 139-143 | sample bottle activity |
| 9 | Atomic Theory  Subatomic Particles | 175, 196-198 | Video – Atoms and Their Electrons |
| 10 | Models of the Atom, orbitals  Bohr-Rutherford Diagrams | 168-174, 196-198 |  |
| 11 | **Rusty Nail Dry Lab** |  |  |
| 12 | Compounds and Molecules Counting atoms | 210-214 |  |
| 13 | Bonds and bonding capacity Activity - Building Molecules |  | Modeling kits |
| 14 | Ions | 192, 220 |  |
| 15 | Naming Molecular and Ionic Compounds | 218-221,  226-227 |  |
| 16 | Polyatomic Ions, Multivalent Elements and naming | 222-225 |  |
| 17 | Hoffman Apparatus Demo (testing for gases)  - electrolysis word equation |  |  |
| 18 | Society and Chemistry | 230-235 |  |
| 19 | Test Review |  |  |
| 20 | **Unit Test** |  |  |